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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

JUN 14 1982

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	OAKITE PRODUCTS, INC.	EMERGENCY TELEPHONE NO.	201-464-6900
ADDRESS (Number, Street, City, State, and ZIP Code) 50 Valley Road, Berkeley Heights, New Jersey 07922			
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS Oakite 90	
CHEMICAL FAMILY	Alkali	FORMULA	Proprietary

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
Sodium hydroxide	50	2 mg/M ³
Sodium meta silicate	25	Not established
Sodium carbonate	10	Not established
Inorganic phosphate salt	2.4	Not established

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1) Bulk density	9.6 #/gal.
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER @ 70°F. Moderate @ 180°F. Appreciable		pH @ 5.3 oz/gal.	13.2
APPEARANCE AND ODOR White powder with small beads; no odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None.	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA	Will not burn or support combustion.				
SPECIAL FIRE FIGHTING PROCEDURES If necessary, flood with water using care not to splatter or splash this material. Wear full protective clothing.					
UNUSUAL FIRE AND EXPLOSION HAZARDS Reacts with aluminum, tin and zinc resulting in the evolution of hydrogen gas. Powder in contact with moisture or water may generate sufficient heat to ignite some combustible materials.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	2 mg/M ³ based on sodium hydroxide.
EFFECTS OF OVEREXPOSURE	Direct contact causes burns of eyes and skin. Inhalation of dust or mist causes irritation of mucous membranes.
EMERGENCY AND FIRST AID PROCEDURES	Immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. For eyes, get medical attention. Wash clothing and shoes before reuse. For inhalation, remove from exposure.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	N/A
	STABLE	X		
INCOMPATIBILITY (Materials to avoid)	Acidic materials, hot water.			
HAZARDOUS DECOMPOSITION PRODUCTS	None known.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	N/A
	WILL NOT OCCUR	X		

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Sweep up dry powder. In any case, flush area with plenty of water. Neutralize remaining traces with dilute acid; e.g., acetic, immediately after flushing or by covering with sodium bicarbonate. Flush area again with water.
WASTE DISPOSAL METHOD	Neutralize with acidic material, dilute and discharge according to federal, state and local regulations. Phosphate removal may be necessary.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	Dust mask when charging.	
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
Provide adequate ventilation for removal of dust and at elevated temperatures for removal of mist.		
PROTECTIVE GLOVES	Rubber, neoprene or vinyl	EYE PROTECTION
		Safety goggles
OTHER PROTECTIVE EQUIPMENT	Rubber, neoprene or vinyl apron and/or other suitable protective clothing; face shield. Recommend eye wash and safety shower near use area.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust or mist. Suitable for general indoor storage in a cool, dry area. Keep container closed when not in use. When preparing new solutions or adding to existing ones, slowly sprinkle product over surface of solution while stirring to avoid violent spattering. Do not add large amounts of dry powder to solution at any one time. Do not add to hot water or hot solution warmer than 110-120°F.
OTHER PRECAUTIONS	